

09/184,043

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USPT,JPAB,EPAB,DWPI,TDBD	16 near5 (12 or 11)	644	<u>L7</u>
USPT,JPAB,EPAB,DWPI,TDBD	conjugate or conjugates or conjugated or conjugating	109087	<u>L6</u>
USPT,JPAB,EPAB,DWPI,TDBD	13 near5 (12 or 11)	42	<u>L5</u>
USPT,JPAB,EPAB,DWPI,TDBD	13 same (12 or 11)	253	<u>L4</u>
USPT,JPAB,EPAB,DWPI,TDBD	biotin	14555	<u>L3</u>
USPT,JPAB,EPAB,DWPI,TDBD	PEG or PEGS	51853	<u>L2</u>
USPT,JPAB,EPAB,DWPI,TDBD	(polyethylene) adj (glycol or glycols)	98405	<u>L1</u>

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L5: Entry 42 of 42

File: DWPI

Jan 16, 1996

DERWENT-ACC-NO: 1996-112719

DERWENT-WEEK: 199612

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TITLE: New PEG modified avidin - used for sepn. or determ. of antigen or antibody in sample by using complex contg. biotin and PEG modified avidin

## PATENT-ASSIGNEE:

ASSIGNEE

CODE

GH KIRIKAGE GAKUEN

KIRIN

## PRIORITY-DATA:

1994JP-0144570

June 27, 1994

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 08012699 A	<u>January 16, 1996</u>	N/A	004	C07K014/465

## APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-NO
JP08012699A	June 27, 1994	1994JP-0144570	N/A

INT-CL (IPC): C07K 14/465; G01N 33/53; G01N 33/537

ABSTRACTED-PUB-NO: JP08012699A

## BASIC-ABSTRACT:

Avidin modified by PEG is new.

Also claimed is a method for the sepn. or the determ. of an antigen or an antibody contained in a sample by using a complex in which biotin is combined to an antigen or an antibody and avidin modified by PEG is combined in it.

ADVANTAGE - The complex is PEG-soluble and a complex prepd. from an antigen protein is also PEG-soluble. It may be easily sepd. and detected.

In an example, specific egg white-originated avidin was dissolved in 0.3 M borate buffer to 1 mg/ml. An amt. of activated 2,4-bis-(O-methoxy polyethylene glycol)-6-chloro-S-triazine was added to it and the mixt. was adjusted to pH 7.0 with 1 N NaOH and reacted at 40 deg.C for 1.5 hr. It was ultrafiltered and centrifuged at 4 deg.C for 10 min. to give PEG-modified avidin. The biotin-combining activity was determined by using HABA. To investigate if the PEG-modified avidin maintains high affinity to a biotinated enzyme, the PEG-modified avidin was combined to biotinated peroxidase in a molar ratio of 1:1 and the affinity was examined by gel chromatography using Sephadex G-50. The PEG-modified avidin reacted quantitatively with the biotinated peroxidase. The behaviour of the PEG-modified avidin and unmodified avidin in an aq. two-phase system of dextran/PEG was examined. The former was transferred quantitatively to the PEG phase, while the latter was not transferred.

CHOSEN-DRAWING: Dwg.0/2

TITLE-TERMS: NEW PEG MODIFIED AVIDIN SEPARATE DETERMINE ANTIGEN ANTIBODY SAMPLE  
COMPLEX CONTAIN BIOTIN PEG MODIFIED AVIDIN

ADDL-INDEXING-TERMS:  
POLYETHYLENE GLYCOL

DERWENT-CLASS: B04 D16 S03

CPI-CODES: B04-B04C; B04-G01; B04-N02; B11-B; B12-K04; D05-H09;

EPI-CODES: S03-E14H4;

CHEMICAL-CODES:

Chemical Indexing M1 \*01\*

Fragmentation Code

H4 H401 H402 H481 H5 H581 H589 H8 M280 M312  
M322 M323 M332 M342 M383 M392 M393 M416 M423 M510  
M520 M530 M540 M620 M710 M781 M903 M904 N102 P831  
Q233 Q505 V743 V752  
Markush Compounds  
199612-18001-N

Chemical Indexing M2 \*02\*

Fragmentation Code

D011 D012 E720 J0 J011 J1 J171 J5 J521 L9  
L921 M280 M314 M321 M332 M342 M372 M391 M412 M431  
M511 M520 M530 M540 M782 M903 M904 M910 N102 P831  
Q233  
Ring Index  
00945  
Specific Compounds  
00172D 00172M  
Registry Numbers  
0172U

Chemical Indexing M1 \*03\*

Fragmentation Code

M423 M750 M903 N102 Q233 V600 V611 V791

Chemical Indexing M1 \*04\*

Fragmentation Code

M423 M431 M782 M903 N102 P831 V802 V811

Chemical Indexing M6 \*05\*

Fragmentation Code

M903 P831 Q233 Q505 R521 R537 R614 R623 R624 R630  
R631

UNLINKED-DERWENT-REGISTRY-NUMBERS: 0172U

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1996-035415

Non-CPI Secondary Accession Numbers: N1996-094450